THE 2002 NETL SENSORS AND CONTROL PROGRAM PORTFOLIO REVIEW AND ROADMAPPING WORKSHOP:

GAS, EMISSIONS, AND PROCESS MONITORING



OCTOBER 15-16, 2002 AT THE PITTSBURGH MARRIOTT CITY CENTER PITTSBURGH, PA

Agenda

Day 1 - October 15, 2002

7:00 - 8:00 am	Registration and Continental Breakfast - 2nd Floor Foyer General Session - Salon 2
8:00 - 8:05 am	Welcome Susan Maley U.S. Department of Energy, National Energy Technology Laboratory
8:05 - 8:30 am	Overview of ISCS Program Robert Romanosky U.S. Department of Energy, National Energy Technology Laboratory
8:30 - 8:55 am	DOE - Best Perspective : The Expanding Boundaries of a Shrinking World <i>John C. Miller</i> , U.S. Department of Energy
8:55 - 9:20 am	Advanced Sensor Technology - Application Nanotechnology John Cumings University of California at Berkeley and Nanomix
9:45 - 10:00 am	Break - Foyer
10:00 -12:00 pm	Review of Current Work (Parallel Sessions)
	Development of Con Separa Colon A

Development of Gas Sensors - Salon 4

- Development of Silicon Carbide Devices for Harsh Environment Sensing Center for Sensor Materials, Michigan State University Ruby N. Ghosh
- Metal-Oxide Sensors for Measuring Various Gases Sensor Research and Development Corporation Brent Marquis
- Advanced Solid State Sensor Technology Base for Vision 21 Systems West Virginia University, Department of Chemical Engineering Charter D. Stinespring
- ► Fiber Optical Micro-Detectors for Oxygen Sensing Center for Sensor Materials, Michigan State University Gregory L. Baker

Emissions Measurement - Salon 5

- ▶ Cavity Ring-Down Spectrometer Systems for Detecting Trace Mercury Emissions Sensor Research and Development Corporation Christopher Carter
- ▶ Development and Applications of Gas Sensing Technologies to Enable Boiler Balancing

The Ohio State University Prabir K. Dutta

 Development of On-Line Instrumentation and Techniques to Detect and Measure Particulates

California Institute of Technology Yongchun Tang

Multifunctional Solid State Sensor (NO_x/O₂/CO) for Coal Power Applications University of Florida Eric D. Wachsman

Agenda, (continued)

10:00 - 12:00 pm Review of Current Work (Continued)

Combustion Measurement and Control - Salon 6

▶ High Temperature Solids Velocity Probe REM Engineering Services, PLLC Esmail R. Monazam

 Carbon Monitor for Coal and Fly Ash lowa State University Robert Weber and Andy Suby

 Sensor Development for Next Generation Turbines
 U.S. Department of Energy, National Energy Technology Laboratory Jimmy Thornton

▶ CFD Investigation of Furnace Operational Conditions to Burner Flow Controls -

Project Plans

Reaction Engineering International

Marc Cremer

12:00 - 1:30 pm **Lunch** (On Your Own)

1:30 - 5:30 pm Facilitated Breakout Sessions: Barriers and Opportunities (Parallel Sessions)

Gas Sensors - Salon 4

Emissions Measurement - Salon 5 Condition Monitoring - Salon 6

2:30 pm **Break** - Foyer

5:30 pm **Adjourn**

Day 2 - October 16, 2002

7:00 - 8:30 am Registration and Continental Breakfast

8:30 - 9:00 am Day 1 Insights and Comments

9:00 - 11:00 am **Breakout Sessions**: Collaboration and the Path Forward (*Parallel Sessions*)

Gas Sensors - Salon 5

Emissions Measurement - Salon 5 Condition Monitoring - Salon 6

10:00 am **Break** - Foyer

11:15 - 12:00 pm Session Report-Out and Wrap-Up - Salon 2

12:00 pm Adjourn

